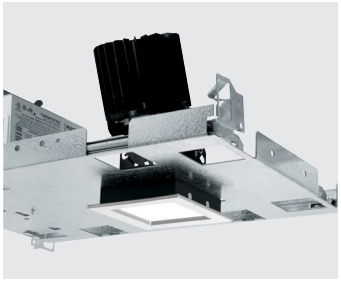
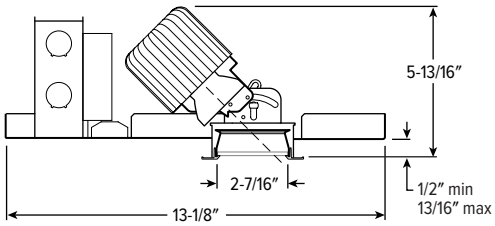
2AS LED
2" Adjustable Downlight – Square



NEW CONSTRUCTION AND REMODEL



CATALOG #:

TYPE:

PROJECT:

BAA & BABA COMPLIANT | CCEA Approved | Low UGR | WET/CC | TW

ORDERING EXAMPLE: 2AS - L15/835 - OPTIONS - CONTROL/DIM - UNV - LW - OF - CS - TRIM OPTIONS - N - F1
(HOUSING — TRIM — MOUNT.)

HOUSING

SERIES
2AS

LUMENS [1]
Single CCT or TW
L5 500lm
L7 700lm
L9 900lm
Single CCT only
L12 1,200lm
L15 1,500lm

CRI
8 80
9 90 [2]

CCT
27 2700K
30 3000K
35 3500K
40 4000K
50 5000K
TW Tunable white (90 CRI, 2700K-5000K)

OPTIONS
See page 3 for EMERGENCY BATTERY OPTIONS.
ATH Airtight construction [3]
F Fuse
CP Chicago plenum (CCEA) [4]
SDT Stepdown transformer [5]

CONTROL
Click HERE for control options.
– None

DRIVER
See page 5 for ADDITIONAL DRIVER OPTIONS.
DIM Dimming driver, 0-10V [6]
DIM1 1% Dimming driver, 0-10V [7]
DIM LINE Driver with line voltage dimming wires [8]

VOLTAGE
UNV 120-277V
347 347V [9]

TRIM [10]

TRIM TYPE
L Flush lens
R Regressed lens

DISTRIBUTION
See page 2 for BEAM ANGLE.
W Wide
M Medium
N Narrow

FLANGE TYPE
OF 1/2" standard flange
ZF Zero-flange mud-in [11]

REFLECTOR FINISH
CS Clear semi-specular powder coat
WH White texture powder coat
BL Black texture powder coat

TRIM OPTIONS
AD Diffuse acrylic lens [12]
PD Diffuse 1/8" polycarbonate lens
WET/CC Wet location, covered ceiling listed
AM Anti-microbial [13]

MOUNTING

MOUNTING TYPE [14]
N Open pan for new construction [16]
I IC-rated enclosure for new construction [17]
R Remodel kit [18]

MOUNTING HARDWARE [15]
F1 Integral 2-position fixed pan bracket, universal bar hanger included [19]
BA1 Adjustable butterfly pan bracket, bar hanger not included [20]
CA1 Adjustable caterpillar pan bracket, universal bar hanger included [21]

NOTES

1 Lumen output based on L Trim Type, W Distribution and WH Reflector Finish, 80 CRI/3500K for single CCT and 90 CRI/4000K for tunable white. Actual performance may vary +/-5%, see page 2 for FIXTURE PERFORMANCE DATA.
2 Not available with 5000K CCT or tunable white.
3 I Mounting Type required.
4 I Mounting Type required.
5 Not available with R Mounting. May be required for 347V, see product builder at hew.com/product-builder
6 0.1% Driver with tunable white.
7 L9 minimum lumen package required. Not available with tunable white.
8 L7 lumen package minimum. Not available with tunable white.
9 Not available with Tunable White, EM batteries, or DMX Driver.
10 Trim ships separately.
11 For use with mud-in plaster construction only, supplied with mud flange installation kit. See page 3 for TRIM TYPE DETAILS. Not available with ATH or WET/CC Options.
12 W Distribution only.
13 WH and BL Reflector Finishes only.
14 Mounting hardware required (N and I only), ordered separately, see MOUNTING HARDWARE ordering info. See page 4 for MOUNTING TYPE DETAILS.
15 Additional mounting hardware options available. See page 4 for MOUNTING HARDWARE DETAILS.
16 Top access required.
17 L9 lumen package max. Top access required. Not available with EM batteries.
18 Not available with tunable white. Also used in new construction sheetrock ceilings. Pan-less installation. Additional plenum space required for R mounting when specified with EM battery. See page 3 for REMODEL MOUNTING PLENUM RESTRICTIONS.
19 N and I Mounting Types only. I Mounting requires external brackets.
20 N Mounting Type only.
21 N Mounting Type only.

2AS LED
2" Adjustable Downlight – Square

FEATURES

- Beam angles ranging from 15° narrow to 35° wide for tailored performance
- Adjustable aim with 0° - 45° tilt and 360° rotation
- 2" aperture is unobtrusive in small scale spaces
- Zero-flange trim options for modern ceiling
- Etched degree markers and directional indicator make it simple to fine-tune the illumination angle
- Die-cast trim choices include flush or regressed lens
- Square shape accentuates architectural styles
- New construction mounting pan, IC-rated, or pan-less remodel kit available
- Contemporary design provides glare-free illumination for a soft ceiling appearance
- Support human-centric design with adaptive, individualized lighting using tunable white light
- Low UGR meets LEED and WELL requirements
- Wireless in-fixture control solutions available
- Made Right Here® in the USA

SPECIFICATIONS

- HOUSING – Die-cast aluminum spun and stamped articulating mechanism with forged aluminum heat sink. Galvanized steel splice compartment with driver mounting plate/enclosure. Mounting clips allow for ceiling thickness from 1/2" – 13/16".
- LENSED TRIM – Die-cast aluminum frame with micro-prismatic, acrylic lens.
- ELECTRICAL – High-performance Class 2 C.O.B. LED array. Modular quick-connect plug for easy field-connection of LED light assembly to driver. Reported L70 > 44,000 hours. Reported L90 = 28,000 hours. Estimated L70 = 117,000 hours. Tunable White products use LEDs of multiple CCTs and may produce a perceptibly different shade of white from single-CCT products at the same CCT. All CCTs are within 3 MacAdam ellipses.
- MOUNTING – Recessed. 20 ga. galvanized steel mounting pan for new construction or IC-rated enclosure. N and R mounting types for use in non-fire rated installations only. Minimum 17" O.C. marked spacing required for L12 and L15 lumen packages when specified with R Mounting Type. N or I mounting: top access required. R mounting: top access required when specified with EM battery.
- LISTINGS –
  - cCSAus conforms to UL STD 1598; Certified to CAN/CSA STD C22.2 No. 250.0 for dry and damp locations. LED light assembly conforms to UL 2108 for remote installation.
  - Suitable for wet location under covered ceiling when specified with WET/CC option.
  - IC-rated for direct contact with insulation when specified with I Mounting Type.
  - City of Chicago Environmental Air approved when specified with CP option.
  - Complies with ASTM-E283 when specified with ATH option.
  - RoHS compliant.
  - Build America, Buy America (BABA) and Buy American Act (BAA) compliant. Request certification at hew.com/buy-american
- WARRANTY – 5-year limited warranty, see hew.com/warranty

FIXTURE PERFORMANCE DATA

			FLUSH LENS TRIM TYPE		REGRESSED LENS TRIM TYPE	
	DISTRIBUTION	WATTAGE	DELIVERED LUMENS	EFFICACY (lm/W)	DELIVERED LUMENS	EFFICACY (lm/W)
L5	W	8.2	503	61	480	59
	M	8.2	408	50	372	45
	N	8.2	463	57	449	55
L7	W	11.5	714	62	681	59
	M	11.5	578	50	527	46
	N	11.5	656	57	636	55
L9	W	14.5	885	61	845	58
	M	14.5	717	49	654	45
	N	14.5	814	56	789	54
L12	W	21.3	1179	55	1125	53
	M	21.3	955	45	871	41
	N	21.3	1084	51	1051	49
L15	W	27.9	1331	48	1270	46
	M	27.9	1078	39	983	35
	N	27.9	1224	44	1187	43

- Photometrics tested in accordance with IESNA LM-79. Results based on L trim type, W distribution, WH finish, 80 CRI/3500K for single CCT and 90 CRI/4000K for tunable white, average wattage for 120V input, and 25°C ambient temperature. Actual performance may vary +/-5%
- Beam angle based on L Trim Type and WH Reflector Finish.
- To calculate lumen output in emergency mode, multiply the battery wattage by the efficacy.
- Use multiplier tables to calculate additional options.

MULTIPLIER TABLES

	COLOR TEMPERATURE		
	CCT	SINGLE CCT	TW
80 CRI	2700K	0.92	–
	3000K	0.98	–
	3500K	1.00	–
	4000K	1.01	–
	5000K	1.02	–
90 CRI	2700K	0.76	0.87
	3000K	0.79	0.96
	3500K	0.82	1.02
	4000K	0.84	1.00
	5000K	0.88	1.02

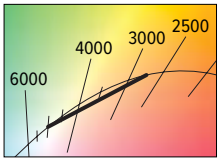
BEAM ANGLE

	TRIM TYPE	
	L	R
W	35°	35°
M	20°	20°
N	15°	15°

REFLECTOR FINISH	
CATALOG NUMBER	CONVERSION FACTOR
WH	1.00
CS	0.98
BL	0.79

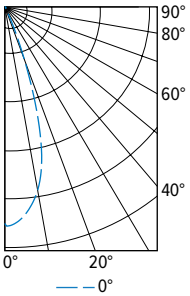
TRIM OPTIONS	
CATALOG NUMBER	CONVERSION FACTOR
AD	0.85
PD	0.85

TUNABLE WHITE



PHOTOMETRY

2AS-L12/835-DIM-UNV-LW-OF-WH 0° TILT Report #: 13257190; 03/19/20 | Total Luminaire Output: 1179 lumens; 21.3 Watts | Efficacy: 55.4 lm/W | 80 CRI; 3500K CCT



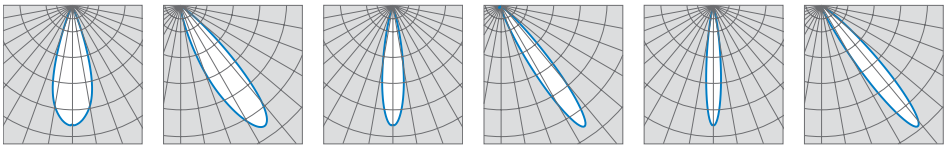
CANDLEPOWER DISTRIBUTION		
VERTICAL ANGLE	HORIZONTAL ANGLE 0°	ZONAL LUMENS
0	3527	
5	3424	227
15	2151	269
25	179	47
35	30	11
45	24	10
55	24	11
65	20	9
75	12	5
85	3	1
90	0	

LUMEN SUMMARY		
ZONE	LUMENS	% FIXTURE
0 - 40	1101	93
0 - 60	1144	97
0 - 90	1179	100
0-180	1179	100

PHOTOMETRY CONTINUED ON NEXT PAGE.

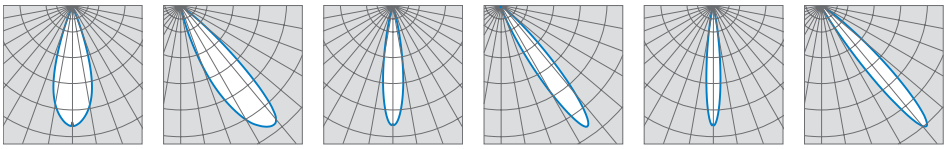
2AS LED
2″ Adjustable Downlight – Square

FLUSH (L)



35° W | 0° Tilt | 35° W | 45° Tilt | 20° M | 0° Tilt | 20° M | 45° Tilt | 15° N | 0° Tilt | 15° N | 45° Tilt

REGRESSED (R)



35° W | 0° Tilt | 35° W | 45° Tilt | 20° M | 0° Tilt | 20° M | 45° Tilt | 15° N | 0° Tilt | 15° N | 45° Tilt

EMERGENCY BATTERY OPTIONS

ORDERING EXAMPLE: EM/7W/RTS	
EMERGENCY BATTERY	**TEST SWITCH**
EM/5W 5-watt emergency battery **EM/7W** 7-watt emergency battery **EM/10W** 10-watt emergency battery [1]	**–** Standard **/RTS** Regressed test switch [2]

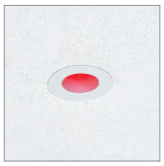
Top access required.

Additional limitations apply, see page 1. Specify CEC in the option code when California Energy Commission regulations are required. Max remote distance is 50′, connection by others.

1 Not available with L5 lumen package.
2 Not available with WET/CC Trim Option.

TEST SWITCH DETAILS

Standard
2-3/4″ x 4-1/2″



Regressed
ø1-3/4″

REMODEL MOUNTING PLENUM RESTRICTIONS

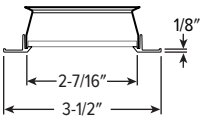
Additional plenum space required for R mounting when specified with EM battery.

CATALOG NUMBER	MINIMUM HEIGHT
EM/5W	7″
EM/7W	9″
EM/10W	11″

TRIM TYPE DETAILS

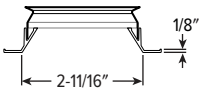
1/2″ STANDARD FLANGE TYPE

FLUSH



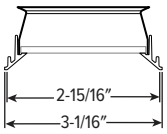
Ceiling Cutout: 3″

REGRESSED



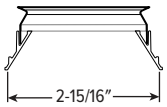
ZERO-FLANGE MUD-IN

FLUSH

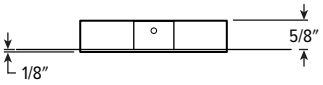


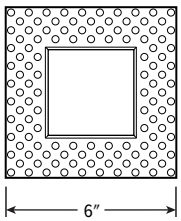
Ceiling Cutout: 3-1/2″

REGRESSED



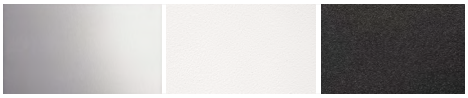
MUD FLANGE MOUNTING KIT





REFLECTOR FINISH DETAILS

CS Clear semi-specular | **WH** White | **BL** Black

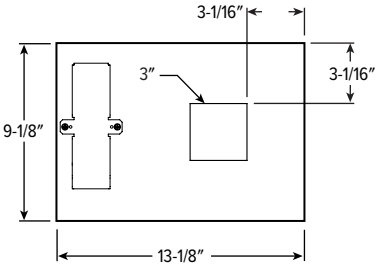


2AS LED
2″ Adjustable Downlight – Square

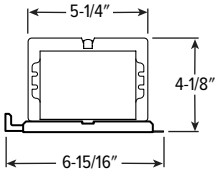
MOUNTING TYPE DETAILS

Flex conduit is recommended for installation.

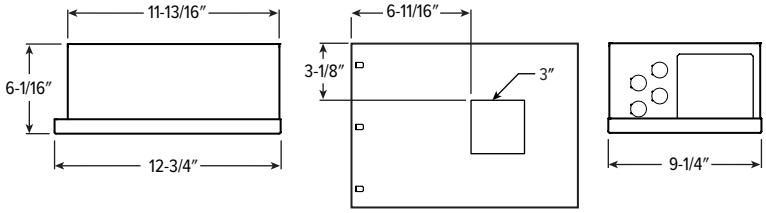
NEW CONSTRUCTION



Driver and Junction Box



IC-RATED

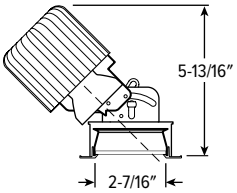


REMODEL

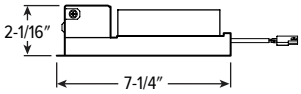
Not available in tunable white.

H.E. Williams Inc. strongly recommends installing a trial fixture to confirm fitment on-site prior to ordering full project quantities.

Cross Section



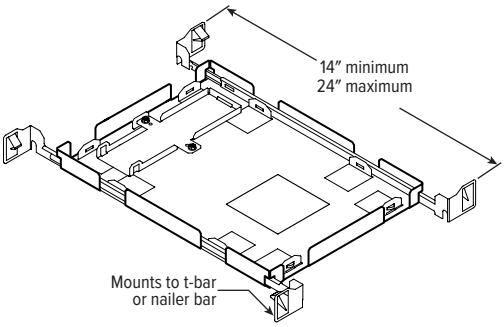
Driver and Junction Box



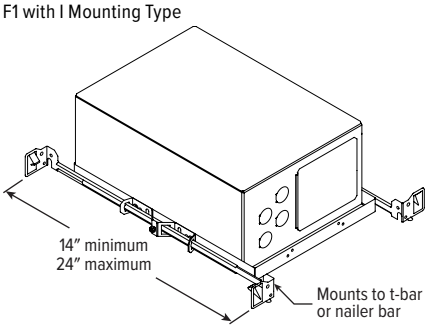
MOUNTING HARDWARE CONTINUES ON NEXT PAGE.

MOUNTING HARDWARE DETAILS

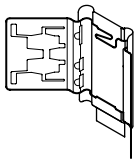
F1 Integral 2-position fixed pan bracket, universal bar hanger included



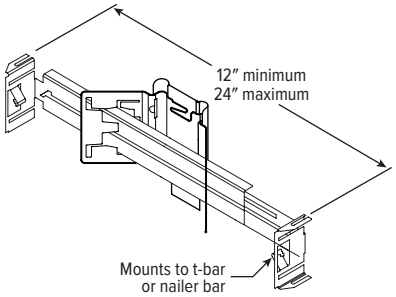
F1 with I Mounting Type



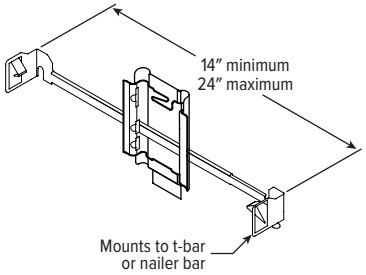
BA1 Adjustable butterfly pan bracket, bar hanger not included (N Mounting Type only)



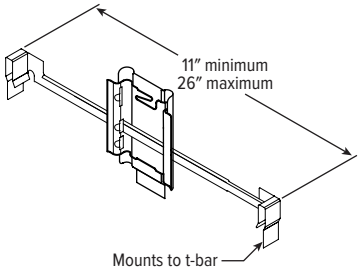
BA2 Adjustable butterfly pan bracket, heavy-duty universal bar hanger included (N Mounting Type only)



CA1 Adjustable caterpillar pan bracket, universal bar hanger included (N Mounting Type only)



CA2 Adjustable caterpillar pan bracket, t-bar hanger included (N Mounting Type only)



2AS LED
2″ Adjustable Downlight – Square

ADDITIONAL DRIVER OPTIONS

Lumen restrictions apply: L7 minimum for DIM LINE and LDE1 drivers. R Mounting Type only available with DIM, DIM1, and DIM LINE controls. Lutron controls available with N Mounting Type only, top access required. 347V may require stepdown transformer, see product builder at hew.com/product-builder

CATALOG NUMBER	DESCRIPTION
BELOW CEILING ACCESS	
DIM	Dimming driver prewired for 0-10V low voltage applications (tunable white: (1) 0-10V signal controls 0.1% dimming and (1) 0-10V signal controls CCT)
DIM1 [1]	1% dimming driver prewired for 0-10V low voltage applications
DIM LINE [1]	Line voltage dimming driver (TRIAC and ELV compatible at 120V only)
TOP ACCESS REQUIRED	
DA	Driver with 12V auxiliary power, without external dimming wires (not available with 347V)
DALI	DALI dimming driver
DMX	Driver prewired for DMX applications
LDE1 [1]	Lutron Hi-lume 1% EcoSystem dimming LED driver
LD2	Lutron DALI-2 digital driver, 1%
DCC	Remote UL Class 2 DC constant current supply, UL- or CSA-listed, by others

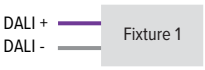
1 Single CCT only.

TUNABLE WHITE DRIVER DETAILS

Not available with R mounting type.

DIM

DALI



DMX

LD2